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(54) MOISTUREPROOF OPTICAL MATERIAL AND ITS PRODUCTION

## (57)Abstract:

PURPOSE: To provide an IR optical material having excellent moistureproof property without requiring a costly and large-scale device by applying a vinylidene chloride based copolymer-contg. moistureproof layer having a crystalline region on the IR optical material.

CONSTITUTION: The vinylidene chloride-based copolymer having the crystal region is dispersed and dissolved in a tetrahydrofuran-contg. liquid mixture. The liquid is applied on the IR optical material. The solvent mixture is evaporated to form the vinylidene chloride-based copolymer film having the crystal region to serve as the moistureproof layer. The moistureproof layer preferably contains  $\geq 70$ wt.% vinylidene chloride-based copolymer. The IR optical material includes KBr, NaCl, KCl, CsI, KRS-5, KRS-6, LBO, DLAP, BBO and KTP as IR transparent optical material and includes ZnSe, CaF<sub>2</sub> (fluorite), SiO<sub>2</sub> (quartz), Al<sub>2</sub>O<sub>3</sub> (sapphire) and glass as IR reflective optical material.

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